## In the Claims:

17:03

Please cancel claims 4, 13, 16 and 21.

## Amend the claims as follows:

- 1. (Currently Amended) A grant generator apparatus for generating grants of available transmission channel bandwidth in a network, said apparatus comprising:
- a first grant table for storing therein grants corresponding to a first-size of said available transmission channel bandwidth,
- at least one other grant table for storing therein grants corresponding to a secondsize of said available transmission channel bandwidth; and
- a grant distributor coupled to said first and said at least one other grant table for distributing a first number of grants from said first table and at least a second number of grants from said other grant table according to a predetermined pattern.

wherein said grant distributor includes a clock divider coupled to said first and said at least one other grant table, said clock divider providing a first number of grant selections to said first grant table and at least a second number of grant selections to said other grant table, said first and second number of grant selections corresponding to said first and second number of grants.

- 2. (Original) The apparatus of Claim 1, wherein said network is a passive optical network (PON).
- 1 3. (Original) The apparatus of Claim 2, wherein said passive optical network 2 (PON) is an ATM-PON.
- 1 4. (Cancelled)

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- 2 5. (Original) The apparatus of Claim 4, further including a first address counter
- 3 and at least a second address counter coupled between said clock divider and said first
- 4 and other grant table, respectively, said first and second address counter operable to
- 5 sequentially select grant table locations in said first and other grant table in accordance
- 6 with said grant table selections from said clock divider.

therefrom based on the grant selection of said clock divider.

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1 2 3 4	7. (Original) The apparatus of Claim 6, wherein said grant generator includes N grant tables and N corresponding address counters, said grant generator further including (N-1) clock dividers and (N-1) multiplexers, said clock dividers and said multiplexers coupled to said N grant tables and address counters in a recursive structure.
1	8. (Original) The apparatus of Claim 1, further including dynamic bandwidth
2	management control logic operable to alter slots in one or more grant tables based on
3	receipt of a triggering parameter.
1	9. (Original) The apparatus of Claim 8, wherein contents of said grant tables are
2	updated upon a change in end user connections of said ATM PON network.
1	10. (Currently Amended) A grant generator apparatus for generating upstream
2	grants of available transmission channel bandwidth in a passive optical network, said
3	apparatus comprising:
4	a first grant table for storing therein grants of a first bandwidth granularity of said
5	available transmission channel bandwidth,
6	at least one second grant table for storing therein grants of a second bandwidth
7	granularity of said available bandwidth channel bandwidth; and
8	a grant distributor coupled to said first and second grant table for distributing a
9	first number of grants from said first table and at least a second number of grants from
10	said second table according to a predetermined pattern,

wherein said first grant table, said second grant table and said grant distributor are

recursively coupled to produce finer granularity grants at subsequent levels and wherein

second grant table, said clock divider providing a first number of grant selections to said

said grant distributor includes a clock divider coupled to said first and said at least one

first grant table and at least a second number of grant selections to said second grant

6. (Original) The apparatus of Claim 5, further including a multiplexer coupled

to outputs of said first and other grant table and to outputs of said clock divider, said

clock divider selecting an appropriate input port of said multiplexer for output of grants

16	table, said first and second number of grain selections corresponding to said into
17	second number of grants.
1	11. (Original) The apparatus of Claim 10, wherein said predetermined pattern is
2	selected to substantially accommodate low bandwidth requests in said network.
1	12. (Original) The apparatus of Claim 10, wherein said passive optical network
2	(PON) is an ATM-PON.
1	13. (Cancelled)
1	14. The apparatus of Claim 11, wherein said grant generator is included in an
2	OLT of said ATM-PON.
1	15. The apparatus of Claim 14, wherein said grant generator is implemented in
2	a medium selected from the group consisting of FPGA and ASIC.
. 1	16. (Cancelled)
. 1	17. The apparatus of Claim 10, wherein the content of said grant tables is
2	updated upon a change in end user connections at said ATM-PON.
3	18. The apparatus of Claim 10, further including dynamic bandwidth
4	management control logic operable to alter slots one or more grant table based on receipt
5	of a triggering parameter.
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1	19. (Currently Amended) A method of generating bandwidth grants in a
2	passive optical network, said method comprising the steps of:
3	providing a first grant table for storing grants of a first bandwidth granularity

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therein;

bandwidth therein; and

providing at least one other grant table for storing grants of at least a second

distributing grants from said first grant table and from said other grant table

downstream to ONT units coupled to said PON, a first number of grants being distributed

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- from said first table and a second number of grants being distributed from said second 9 table over a complete grant cycle, wherein said grant cycle repeats itself upon completion, 10
- wherein said step of distributing includes utilizing a clock divider to provide a first number of grant selections to said first grant table and at least a second number of 12 grant selections to said second grant table, said first and second number of grant 13 selections corresponding to said first and second number of grants. 14
  - 20. (Original) The method of Claim 19, wherein the content of said grant tables is updated upon a change in end user connections at said ATM-PON.
    - 21. (Cancelled)
  - 22. (Original) The method of Claim 20, wherein said first grant table, said second grant table and said grant distributor are recursively coupled to produce finer granularity grants at subsequent levels.